



Compact Desk-Top Cassette Recorder

with Voice Activation



Owner's Manual
Please read before using this equipment.

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Features

Your RadioShack Compact Desk-Top Cassette Recorder has a lightweight, portable design that makes it perfect for recording lectures, interviews, business meetings, and speeches.

The recorder's voice activation features let you set the recorder to automatically record only when it picks up sound. This saves room on your cassette tape, conserves battery power, and lets you record without manually stopping the recorder whenever a long pause or break occurs.

The recorder also includes these features:

Voice-Activated (VOX) Recording — records only when there is sound, so you can save power and prevent blank sections of tape.

Automatic Stop — protects the tape and tape handling parts by automatically stopping the tape when it reaches the end.

Pop-Up Microphone — lets you point the microphone toward a sound source, providing maximum sensitivity and letting you record sound sources from several feet away.

Tape Counter — helps you quickly locate a specific section on the tape.

Earphone Jack — lets you connect an optional earphone to the recorder so you can listen in privacy.

MIC Jack — lets you connect an optional external microphone to record from longer distances.

REMOTE Jack — lets you use an external microphone to operate the recorder.

Automatic Level Control (ALC) Circuit — ensures the proper recording level.

Record/Battery Indicator — lights to confirm the recorder is recording and dims when it is time to replace the batteries.

Three Power Sources — you can power the recorder from four AA batteries (not supplied), standard AC power (with the supplied AC adapter), or vehicle DC power (with an optional DC adapter).

Built-In Carrying Strap — lets you easily carry the cassette recorder anywhere you go.

Cue/Review — lets you listen to recordings at a high speed to help you find a particular section.

Preparation

CONNECTING POWER

You can power the recorder from any of these sources:

- internal batteries (not supplied)
- standard AC power with the supplied AC adapter
- your vehicle's cigarette-lighter socket with an optional DC adapter (not supplied)

Note: Connecting an adapter disconnects the internal batteries.

Installing Batteries

Your recorder can use four AA batteries (not supplied) for power. For the best performance and longest life, we recommend RadioShack alkaline batteries.

Cautions:

- Use only fresh batteries of the required size and recommended type.
- Do not mix old and new batteries, different types of batteries (standard, alkaline, or rechargeable), or rechargeable batteries of different capacities.

Follow these steps to install batteries.

1. Slide the battery compartment cover in the direction of the arrow to remove it.
2. Place the batteries in the compartment as indicated by the polarity symbols (+ and -) marked inside.
3. Replace the cover.

When the RECORD/BATT indicator dims during operation or does not light when you turn on the recorder, replace the batteries.

Warning: Dispose of old batteries promptly and properly. Do not burn or bury them.

Caution: If you do not plan to use the recorder with batteries for a week or more, remove the batteries. Batteries can leak chemicals that can destroy electronic parts.

Important: This recorder can use nickel-cadmium rechargeable batteries. At the end of a nickel-cadmium battery's useful life, it must be recycled or disposed of properly. Contact your local, county, or state hazardous waste management authorities for information on recycling or disposal programs in your area or call 1-800-843-7422. Some options that might be available are: municipal curb side collection, drop-off boxes at retailers such as your local RadioShack store, recycling collection centers, and mail-back programs.



Using AC Power

You can power the recorder using the supplied 6V, 350-mA AC adapter.

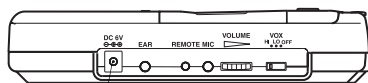
Cautions:



You must use a Class 2 power source that supplies 6V DC and delivers at least 350 mA. Its center tip must be set to positive and its plug must fit the recorder's **DC 6V** jack. The supplied adapter meets these specifications. Using an adapter that does not meet these specifications could damage the recorder or the adapter.

- Always connect the AC adapter to the recorder before you connect it to AC power. When you finish, disconnect the adapter from AC power before you disconnect it from the recorder.

Insert the barrel plug into the recorder's **DC 6V** jack, then plug the other end into a standard AC outlet.



DC 6V

Using Vehicle Battery Power

You can power the recorder from a vehicle's 12V power source (such as cigarette-lighter socket) using a 6V, 350-mA DC adapter and a size M Adaptaplug adapter (neither supplied). Both are available at your local RadioShack store.

Cautions:



You must use a power source that supplies 6V DC and delivers at least 350 mA. Its center tip must be set to positive and its plug must fit the recorder's **DC 6V** jack. Using an adapter that does not meet these specifications could damage the recorder or the adapter.

- Always connect the DC adapter to the recorder before you connect it to the power source. When you finish, disconnect the adapter from the power source before you disconnect it from the recorder.

Follow these steps to power the recorder from your vehicle's battery.

1. Set the DC adapter's voltage switch to 6V.
2. Insert the barrel plug into the recorder's **DC 6V** jack.
3. Plug the other end of the DC adapter into the vehicle's cigarette-lighter socket.

USING AN EARPHONE

You can use an optional mono earphone with a $\frac{1}{8}$ -inch (3.5-mm) mini plug to listen to a tape privately. Insert the earphone's $\frac{1}{8}$ -inch plug into the **EAR** jack.

Note: Connecting the earphone automatically disconnects the built-in speaker.

Listening Safely

To protect your hearing, follow these guidelines when you use the earphone.

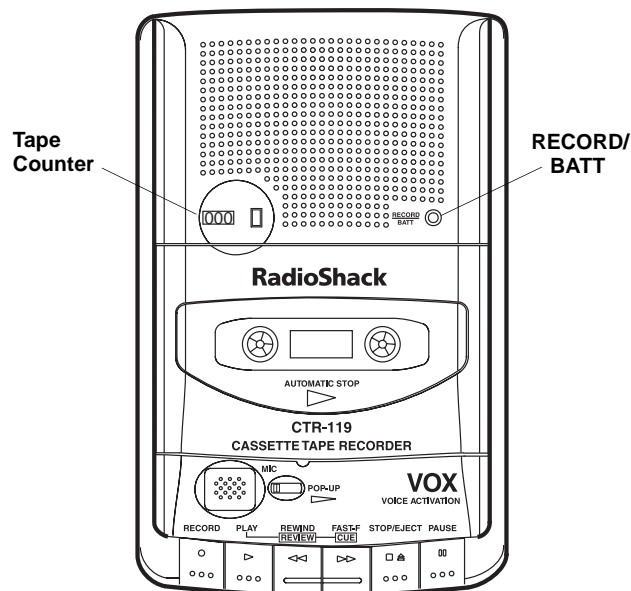
- Set the volume to the lowest setting before you begin listening. After you begin listening, adjust the volume to a comfortable level.
- Do not listen at extremely high volume levels. Extended high volume listening can lead to permanent hearing loss.
- Once you set the volume, do not increase it. Over time, your ears adapt to the volume level, so a volume level that does not cause discomfort might still damage your hearing.

Traffic Safety

Do not wear an earphone while operating a motor vehicle or riding a bicycle. This can create a traffic hazard and can be illegal in some areas.

Even though some earphones let you hear some outside sounds when listening at normal volume levels, they still can present a traffic hazard.

□ A Quick Look at Your Recorder



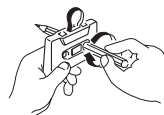
□ Operation

LOADING A CASSETTE TAPE

Note: We do not recommend metal tapes for use with this cassette player.

1. Take up any slack in the tape by turning one of the cassette's hubs with a pencil.

Caution: If you do not remove the excess slack, the tape could become tangled in the record/playback mechanism.



2. Press **STOP/EJECT** to open the cassette compartment door.
3. Load the cassette with its open edge out, the side you want to play facing up, and its full reel to the left.
4. Close the door.

PLAYING A CASSETTE TAPE

1. Load the cassette tape.
2. Press **PLAY**. The cassette plays until it reaches the end of the side, then it automatically stops.

Notes:

- Press **PAUSE** to temporarily stop playback. Press **PAUSE** again to resume playback.
- To rapidly wind the tape forward or backward, press **STOP/EJECT** then **FAST-F/CUE** or **REWIND/REVIEW**. Press **STOP/EJECT** then **PLAY** to resume playback.

3. Adjust **VOLUME** to a comfortable listening level.
4. To stop playback before the tape automatically stops, press **STOP/EJECT**.

5. Press **STOP/EJECT** again to open the cassette compartment and remove the cassette tape.

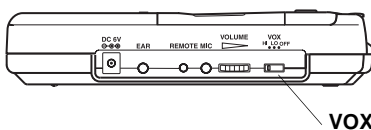
RECORDING

Notes:

- Before you load a cassette tape for recording, be sure its erase-protection tabs are in place (see "Preventing Accidental Erasure" on Page 16).
- The recorder's Automatic Level Control (ALC) circuit automatically adjusts the recording level. **VOLUME** has no effect on recording.
- Do not use the earphone during recording. The built-in microphone's circuitry can cause feedback.

1. Load a blank cassette tape or the one you want to record over into the cassette compartment. Be sure its erase-protection tabs are in place.

2. Set **VOX** to **OFF**.



3. Press **RECORD** to begin recording. Both **PLAY** and **RECORD** lock down and the recorder records (unless **PAUSE** is pressed). The RECORD/BATT indicator flashes.

Notes:

- If you hold down **FAST-F/CUE** or **REWIND/REVIEW** while recording, **RECORD** releases and the tape fast-forwards or rewinds. You hear the recorded sound, so you can locate any desired segment on the tape. When you release **FAST-F/CUE** or **REWIND/REVIEW**, normal play resumes. To continue recording, press **STOP/EJECT** then **RECORD**.
 - To temporarily stop recording, press **PAUSE**. Press **PAUSE** again to resume recording.
4. Press **STOP/EJECT** to stop recording before the tape stops at the end of the tape side.

Using the Built-In Microphone

1. Load a blank cassette tape, or one you want to record over, into the cassette compartment.
2. Place the recorder 2 to 3 feet from the recording source.
3. Set **VOX** to **OFF**.
4. For better recording quality, slide **POP-UP** to the right. The built-in microphone pops up.
5. Press **RECORD** to begin recording. Both **PLAY** and **RECORD** lock down.

Note: To temporarily stop recording, press **PAUSE**. Press **PAUSE** again to resume recording.

6. The recorder automatically stops the tape when it reaches the end of the current side. To stop recording sooner, press **STOP/EJECT**.
7. When you finish recording, press the built-in microphone down until it clicks.

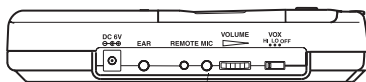
Using an External Microphone

You can connect an external microphone (not supplied) with a $\frac{1}{8}$ -inch (3.5-mm) plug to the recorder. Your local RadioShack store sells a variety of microphones.

Note: Connecting an external microphone automatically disconnects the built-in microphone.

Follow these steps to record using an external microphone.

1. Load a blank cassette tape, or one you want to record over, into the cassette compartment.
2. Insert the microphone's plug into the recorder's **MIC** jack.



MIC

Note: If the external microphone has a separate, smaller plug for remote operation, insert that plug into the **REMOTE** jack then set **VOX** to **OFF**. Then you can use the microphone's remote switch to stop or start the recorder.

3. Press **RECORD** to begin recording. Both **PLAY** and **RECORD** lock down.

Note: To temporarily stop recording, press **PAUSE**. Press **PAUSE** again to resume recording.

4. Speak into the external microphone.
5. The recorder automatically stops the tape when it reaches the end of the current side. To stop recording sooner, press **STOP/EJECT**.

VOX Recording

When you use VOX recording, the recorder automatically begins recording when it senses a voice or other sound, then automatically stops when the sound stops.

To start VOX recording, set **VOX** to the desired sensitivity:

- **HI** — begins recording from soft, low sounds as well as loud sounds
- **LO** — requires a normal to loud sound to begin recording (better in a noisy environment)

The recorder automatically sets the sound level at which recording begins, depending on where you set **VOX**. Setting **VOX** to **HI** increases the VOX sensitivity. The higher the VOX sensitivity, the lower the sound level is needed to start VOX recording.

Note: If **VOX** is set to **LO** or **HI**, recording begins when the recorder detects an audible signal. If the sound stops or becomes



inaudible for about 5 seconds, the recorder stops. The recorder starts recording again when it receives another audible signal.



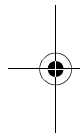
USING THE TAPE COUNTER

You can use the tape counter to help you find specific locations on the tape.

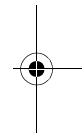
At the beginning of a tape, press the button next to the tape counter to reset it to 000. Then note the counter's reading at the beginning of each selection.

To return to a selection, fast-forward or rewind the tape until the counter shows the noted reading.

TAPE TIPS



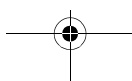
Restoring Tape Tension and Sound Quality



After you play a cassette tape several times, the tape might become tightly wound on the reels. This can cause playback sound quality to deteriorate.

To restore the sound quality, fast-forward the tape from the beginning to the end of one side, then completely rewind it. Then loosen the tape reels by gently tapping each edge of the cassette on a flat surface.

Caution: Be careful not to damage the cassette when tapping it. Do not touch the exposed tape or allow any sharp objects near the cassette.



Erasing Tapes

To record over a cassette tape, simply record as usual. The cassette deck records over the previous recording.

You can quickly erase both sides of a cassette tape using a RadioShack bulk tape eraser.

Note: If you use metal or high-bias type tape, the recorded sound might not be erased properly.

Preventing Accidental Erasure

Cassette tapes have two erase-protection tabs — one for each side. When a tab is in place, you can record on that side.

To prevent accidental erasure of a tape recording, use a screwdriver to remove one or both of the cassette tape's erase-protection tabs. This prevents **RECORD** from being pressed.

If you later decide to record on a tape side after you have removed the erase-protection tab, place a piece of strong plastic tape over that side's erase-protection hole. Be sure you cover only the hole originally covered by the erase-protection tab.

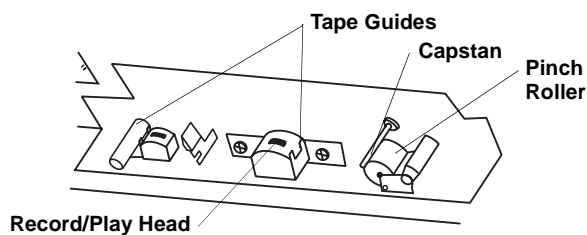
Caution: Removing the erase-protection tabs does not prevent a bulk eraser from erasing a cassette tape.

CLEANING THE TAPE-HANDLING PARTS

Dirt, dust or particles of the tape's coating can accumulate on the tape heads and other parts that the tape touches. This can greatly reduce the performance of the cassette player. After every 20 hours of tape player operation, follow these steps to

clean the tape-handling parts or use a RadioShack cassette deck cleaning kit.

1. Remove the batteries and disconnect any other power source.
2. Open the cassette compartment door then use a pencil eraser to hold down the protection tab sensor inside the cassette compartment. Then press **RECORD**. **RECORD** and **PLAY** lock down, exposing the tape-handling parts.
3. Use a cotton swab dipped in denatured alcohol or tape head cleaning solution to clean the tape guides, record/play head, erase head, pinch roller, and capstan.



4. When you finish cleaning, press **STOP/EJECT** and close the cassette compartment door. Then reconnect power.

Care

To enjoy your RadioShack Compact Desk-Top Cassette Recorder for a long time:

- Keep the recorder dry. If it gets wet, wipe it dry immediately.

- Use and store the recorder only in normal temperature environments.
- Handle the recorder gently and carefully. Do not drop it.
- Keep the recorder away from dust and dirt.
- Wipe the recorder with a damp cloth occasionally to keep it looking new.

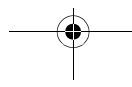
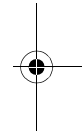
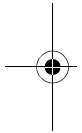
Modifying or tampering with the recorder's internal components can cause a malfunction and might invalidate its warranty. If your recorder is not performing as it should, take it to your local RadioShack store for assistance.

Specifications

Track System	2-Track Monaural
Tape Speed	1 7/8 inches/S (4.75 cm/S)
Recording System	AC Bias
Frequency Response (@ ± 6 dB)	125 Hz–6.3 kHz
Signal-to-Noise Ratio	40 dB
Wow and Flutter	< 0.35%
Power Requirements	Four AA Batteries (not supplied), or AC Adapter (supplied), or DC Adapter (not supplied)
Dimensions (HWD)	1 1/2 \times 4 3/4 \times 7 9/16 in (38 \times 121 \times 192 mm)
Weight (without batteries)	17.64 oz (500 g)



Specifications are typical; individual units might vary. Specifications are subject to change and improvement without notice.



Limited Ninety-Day Warranty

This product is warranted by RadioShack against manufacturing defects in material and workmanship under normal use for ninety (90) days from the date of purchase from RadioShack company-owned stores and authorized RadioShack franchisees and dealers. EXCEPT AS PROVIDED HEREIN, RadioShack MAKES NO EXPRESS WARRANTIES AND ANY IMPLIED WARRANTIES, INCLUDING THOSE OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, ARE LIMITED IN DURATION TO THE DURATION OF THE WRITTEN LIMITED WARRANTIES CONTAINED HEREIN. EXCEPT AS PROVIDED HEREIN, RadioShack SHALL HAVE NO LIABILITY OR RESPONSIBILITY TO CUSTOMER OR ANY OTHER PERSON OR ENTITY WITH RESPECT TO ANY LIABILITY, LOSS OR DAMAGE CAUSED DIRECTLY OR INDIRECTLY BY USE OR PERFORMANCE OF THE PRODUCT OR ARISING OUT OF ANY BREACH OF THIS WARRANTY, INCLUDING, BUT NOT LIMITED TO, ANY DAMAGES RESULTING FROM INCONVENIENCE, LOSS OF TIME, DATA, PROPERTY, REVENUE, OR PROFIT OR ANY INDIRECT, SPECIAL, INCIDENTAL, OR CONSEQUENTIAL DAMAGES, EVEN IF RadioShack HAS BEEN ADVISED OF THE POSSIBILITY OF SUCH DAMAGES.

Some states do not allow limitations on how long an implied warranty lasts or the exclusion or limitation of incidental or consequential damages, so the above limitations or exclusions may not apply to you.

In the event of a product defect during the warranty period, take the product and the RadioShack sales receipt as proof of purchase date to any RadioShack store. RadioShack will, at its option, unless otherwise provided by law: (a) correct the defect by product repair without charge for parts and labor; (b) replace the product with one of the same or similar design; or (c) refund the purchase price. All replaced parts and products, and products on which a refund is made, become the property of RadioShack. New or reconditioned parts and products may be used in the performance of warranty service. Repaired or replaced parts and products are warranted for the remainder of the original warranty period. You will be charged for repair or replacement of the product made after the expiration of the warranty period.

This warranty does not cover: (a) damage or failure caused by or attributable to acts of God, abuse, accident, misuse, improper or abnormal usage, failure to follow instructions, improper installation or maintenance, alteration, lightning or other incidence of excess voltage or current; (b) any repairs other than those provided by a RadioShack Authorized Service Facility; (c) consumables such as fuses or batteries; (d) cosmetic damage; (e) transportation, shipping or insurance costs; or (f) costs of product removal, installation, set-up service adjustment or reinstallation.

This warranty gives you specific legal rights, and you may also have other rights which vary from state to state.

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